

Of Equilibrium in Liquid Mixtures and Solutions.
II. Solubility of Phosgene Vapors in Certain
Solvents at Pressures Below Atmospheric, by
V. A. Kireyev, S. E. Kaplan, K. Vasneva, 8 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol VI, 1935,
pp 799-805.

SLA Tr R-563

Sci - Chem
Jul 57

49, 955

Moor, V. G., Strigaleva, N. V., and Shiliyaeva, L. V.
KINETICS AND MECHANISM OF THERMAL CON-
VERSIONS OF UNSATURATED HYDROCARBONS:
THERMAL POLYMERIZATION OF 1,3-BUTADIENE
UNDER ATMOSPHERIC PRESSURE. [1961] 12p 15refs
Order from OTS, SLA, or ETC \$1.60 TT-61-16818

Trans. of Zhurnal Obrabchel Khimii (USSR) 1935,
v. 5, p. 818-829.

DESCRIPTORS: *Butadienes, Polymerization, Reaction
kinetics, *Hydrocarbons, Pyrolysis, Decomposition,
Temperature.

TT-61-16818

- I. Moor, V. G.
- II. Strigaleva, N. V.
- III. Shiliyaeva, L. V.
- IV. Title: Thermal...

(Chemistry--Organic, TT, v. 11, no. 3)

Office of Technical Services

Tarasenkov, D. N., Grigorovich, A. N., and Bogoslovskaya, A. V.
ON METHODS OF MEASURING THE VAPOR PRESSURE OF METAL SALTS. [1963] [19]p. (figs. omitted) 12 refs.

Order from OTS or SLA \$1.60 63-14305

Trans. of Zhurnal Obshchei Khimii (USSR) 1935, v. 5, p. 924-933.

DESCRIPTORS: *Vapor pressure, *Lead compounds, *Sulfides, *Chlorides, *Copper compounds, Metallic compounds, Salts, Measurement, Fluid flow, Statistical analysis, Boiling.

(Chemistry--Physical, TT, v. 10, no. 7)

63-14305

I. Tarasenkov, D. N.
II. Grigorovich, A. N.
III. Boroslovskaya, A. V.

Office of Technical Services

Dimerisation of Butadiene, by Ya. M. Slobodin
UNCLASSIFIED

RUSSIAN; Zhurnal Obshchoi Khimii, 1935, Vol 5,
pp 1415-1420.

Sci Mus Lib No 52/2731

Scientific - Chemistry

OTS TT-61-18046

25 October 1952

Lebedev, S. V., Gulyaeva, A. I., and
Vasil'ev, A. A.
HYDROGENATION OF VINYLACETYLENE. [1961]
14p, 17 refs.
Order from OTS or SLA \$1.60

61-18100

Trans. of Zhurnal Obrabotki Khimi (USSR) 1975,
v. 5, p. 1422-1434.

DESCRIPTORS: Vinyl radicals, Acetylenes,
Hydrogenation.

61-18100

I. Lebedev, S. V.
II. Gulyaeva, A. I.
III. Vasil'ev, A. A.

(Unannounced)

Office of Technical Services

Preparation of N,N'-Dekisubstituted Barbituric and
Thiobarbituric Acids, by N. V. Kozulin.

RUSSIAN, per, Zhur Osnich Khim, Vol V, No 10,
1925, pp 1460-1467.

AT&T 2700

Sci - Chem

Jan 60

105056

Viscosity and Electrical Conductivity in the KCl-LiCl System of Fused Salts, by S. V. Garpachev, A. G. Stromberg, V. N. Podchainova, 18 pp.

RUSSIAN, no per, Zhurnal Obshch Khim, Vol 6, No 11, 1935,
pp 1517-1526.

LTS TT-63-20746
Sci Tr Center RT-775

11,005

Scientific - Chemistry

K-H-2867-i

Lebedev, S. V. and Orlov, S. M.
RESEARCH ON POLYMERIZATION. XV. POLY-
MERIZATION OF 2-BUTENE. [1961] 6p. 12 refs.
Order from OTS or SLA \$1.10

61-18099
I. Lebedev, S. V.
II. Orlov, S. M.
III. Title: Polymerization...

Trans. of Zhurnal Obrshchei Khimii (USSR) 1935,
v. 5, p. 1589-1594.

DESCRIPTORS: Polymerization, Butanes

REF ID: A6490

Office of Technical Services

Levedev, S. V. and Borgman, Yu. A.
RESEARCH ON POLYMERIZATION XIV. LOW TEMPERATURE POLYMERIZATION OF ISOBUTENE.
[1961] 10p. 10 refs.
Order from OTS or SLA \$1.10

61-16616

Trans. of Zhurnal Obschei Khimii (USSR) 1935, v. 5,
p. 1595-1606.

DESCRIPTORS: *Butenes, *Polymerization, Polymers,
Temperature.

61-16616

I. Levedev, S. V.
II. Borgman, Yu. A.
III. Title: Low ...

184031

(Unannounced)

Office of Technical Services

Conditions Influencing Condensation of Acetone
Molecules, by F. P. Surmin, 6 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol V, No 12,
1935, pp 1639-1641.

SLA 59-10783

Sci - Chem
Sep 59
Vol 2, No 2

98,012

Gorin, Yu. A. and Neimark, O. M.
MECHANISM OF CONTACT CONVERSION OF ALCOHOLS TO DIOLEFIN HYDROCARBONS BY THE
METHOD OF S. V. LEBEDEV. I. CATALYTIC
CONVERSION OF PRIMARY PROPYL ALCOHOL TO
DIOLEFINS. 9p 16refs
Order from OTS, SLA, or ETC \$1.10 TT-61-16610

Trans. of Zhurnal Osnovy Khimii (USSR) 1935, v. 5,
p. 1772-1780.

(Chemistry--Organic, TT, v. 12, no. 4)

TT-61-16610

I. Gorin, Yu. A.
II. Neimark, O. M.
III. Title: Catalytic ...

Office of Technical Services

Lebedev, S. V. and Sergienko, S. R.
DIMERIZATION OF 1,3-BUTADIENE. [1961] 14p
43refs
Order from OTS, SLA, or ETC \$1.60 TT-61-16602

Condensed trans. of Zhurnal Obshchey Khimii (USSR)
1935, v. 5, p. 1839-1858.

DESCRIPTORS: *Butadienes, Polymerization, *Cyclohexenes, Vinyl radicals, *Bromides, Synthesis (Chemistry), Molecular structure, Crystal structure

(Chemistry--Organic, TT, v. 11, no. 3)

TT-61-16602

1. Title: S-Vinyl cyclohexene
- I. Lebedev, S. V.
- II. Sergienko, S. R.

Office of Technical Services

Action of Some Silicates on Hydrocarbons Containing a Tertiary Butyl Radical in Their Molecule,
by S.V. Lebedev, N.A. Kudryavtsev. 6 pp.
RUSSIAN, per, Zhurnal Obshchei Khimii, Vol 5, 1935,
pp 1859-1865.
SLA TT-61-18045

Sci/Chemistry
Jul 66

305,991

Dintses, A. I. and Zherko, A. V.
KINETICS AND MECHANISM OF DECOMPOSITION OF
HYDROCARBONS. III. DEPENDENCE OF THE
DECOMPOSITION VELOCITY OF NORMAL HEXANE
AND NORMAL OCTANE UPON THE EXTENT OF THE
REACTION. 9p 17refs
Order from OTS, SLA, or ETC \$1.10 TT-61-16679

Trans. of Zhurnal Obshchei Khimii (USSR) 1936, v. 6
(no. 1) p. 68-74.

(Chemistry--Organic, TT, v. 12, no. 4)

TT-61-16679

I. Dintses, A. I.
II. Zherko, A. V.
III. Title: Dependence ...

Office of Technical Services

Kreev, V. A. and Nikiforova, V. A.
DETERMINATION OF THE VAPOR PRESSURE OF
PROPYLENE DICHLORIDE, ETHYLENE CHLORO-
HYDRIN AND PROPYLENE CHLOROHYDRIN. [1963]
2p. 1 ref.

Order from OTS or SLA \$1.10 63-16036

Trans. of [Zhurnal Obshchey Khimii] (USSR) 1936,
v. 6 [no. 1] p. 75-77.

DESCRIPTORS: *Propenes, Chlorides, *Ethylenes,
*Halohydrins, *Vapor pressure, Determination,
Tables.

(Chemistry--Physical, TT, v. 10, no. 6)

63-16036

1. Title: Ethylene chlorohydrin
 2. Title: Propylene chloride
 3. Title: Propylene chlorohydrins
- I. Kreev, V. A.
II. Nikiforova, V. A.

Office of Technical Services

Kireev, V. A. and Romanchuk, M. A.
OVER HET EVENWICHT IN VLÖEISTOFMENGSELS
EN OPLOSSINGEN. IX. BEPALING VAN DE OPLOS-
BAARHEID VAN ACETYLEEN EN VINYLCHLORIDE
IN DIVERSE OPLOSMIDDELEN BIJ 0°C. EN BIJ EEN
DRUK LAGER DAN 1 ATMOSFEER. (Equilibrium in
Liquid Mixtures and Solutions, IX. Determination of
the Solubilities of Acetylene and Vinyl Chloride in
Some Solvents at 0°C. and Pressures Below One
Atmosphere), 8p, 2 refs, MTWL: 141. (text in Dutch)
Order from OTS or ETC \$1.55 61-17711

Trans. of Zhurnal Obshchei Khimii (USSR) 1936, v. 6,
p. 78-80.

DESCRIPTORS: *Acetylenes, *Vinylchlorides,
Solubility.

61-17711

I. Kireev, V. A.
II. Romanchuk, M. A.
III. MTWL-141
IV. Stichting Moeillijk
Toegankelijke Wetenschap-
lijke Literatuur

Office of Technical Services

| | | |
|---|---|--|
| <p>Slobodkin, Ya. M. ISOMERIZATION OF CYCLIC HYDROCARBONS WITH AN ISOLATED SYSTEM OF DOUBLE BONDS [1961] 10p. Order from ATS \$13.45 ATS-45N19R ATS-45N19R Trans. of Zhur[nal Obshchey Khim[ii] (USSR) 1936, v. 6, no. 1, p. 129-136.</p> <p>CTJ TT-61-16207 (3 pp) CTJ TT-61-16646 (4 pp)</p> | <p>6/22/03</p> <p>1. Hydrocarbons--Isomerism 2. Cyclic compounds-- Isomerism 3. Ethylenes--Isomerism</p> <p>158 \$16</p> | |
| (Unannounced) | Office of Technical Services | |

Double Salts of Aryldiazonium Chlorides and Chlorides
of Heavy Metals, by K. A. Kochenkov, A. M. Kosmoyanov
49 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol VI, 1936,
pp 144-160.

MIN R T 371

DW

Scientific - Chemistry

Sep 52 016

5465

Tayurikh, L. G., Efremova, E. M., Bartashev, B. A.
and Yappu, Yu. G.

VINYLACETYLENE AS A PRIMARY PRODUCT OF
POLYMERIZATION OF ACETYLENE UNDER DIF-
FERENT CONDITIONS. [1961] 7p 10refs
Order from OTS, SLA, or ETC \$1.10 TT-61-16812

Trans. of Zhurnal Obshchey Khimii (USSR) 1936, v. 6,
p. 197-202.

DESCRIPTORS: *Acetylenes, *Polymerization, Vinyl
radicals, Catalysts, Chemical reactions, Distillation.

TT-61-16812

I. Tayurikh, L. G.
II. Efremova, E. M.
III. Bartashev, B. A.
IV. Yappu, Yu. G.

(Engineering--Chemical, TT, v. 11, no. 3)

Office of Technical Services

The Question of the Existence of the Complex
MnSO₄, xSO₂, by L. I. Kashtanov, T. A. Gulyanskaya,
6 pp.

RUSSIAN, per, Zhur Obshchei Khim, Vn 1936, pp
227-231.

SIA R-2929

Sc1

Jul 59

92, 341

The Action of Certain Dihaloid Hydrocarbon Derivatives on Ethyl Ester of Phosphorous Acid and on Salts of Diethyl Phosphorous Acid, by A. Ye. Arbuzov, N. P. Kushkova, 10 pp.

Full translation.

RUSSIAN, no per, Zhur Obshch Khim, Vol VI, No 2,
1936, pp 283-288.

Def Sci Info Svc
T 107 R

Dec 53 CTS/DEX

Scientific - Chemistry
CIA 2103043

8371

Formation of Intermediate Compounds in the
Oxidation of Sulfur Dioxide with Oxygen
in the Presence of Catalysts and Catalyst
Poisons, by L. I. Kashtanov and V. P. Ruizhov,
10 pp.

RUSSIAN, per, Zhur Osnch Khim, vol VI, 1936,
pp 549-554.

SLA K-2522

Sci

Aug 58

72,830-

Relation Between the Structure and Optical and
Photographic Properties of Cyamine Dyes. II.
Thiocyanines With Substitutes Containing
Sulphur, by A. I. Kipryancv, Z. P. ~~EE~~ Sytnikov,
E. D. Sych, 15 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol VI, No 4,
1936, p 576-593.

26,688
Sci Trans Center
RT 2352

Scientific - Chemistry Sep 55 CTS/DEX

The Effect of Catalysts and of Anticatalysts on
the Kinetics and Mechanism of the Oxidation of
Sulfur Dioxide with Ozone, by L. I. Kashtanov,
V. P. Ruizhov, 35 pp.

RUSSIAN, per, Zhur Obshchei Khim, Vol VI, 1936,
pp 732-747.

SLA/R-2523

Sci
Apr 59

84, 870

Kizhner, N. and Krasova, V.
COMPARATIVE STUDY OF XYLENE FROM PETROLEUM AND FROM COAL TAR. [1962] 11p.
6 refs.

Order from OTS or SLA \$1.60 62-14608

Trans. of Zhurnal Obshchei Khimii (USSR) 1936, v. 6,
p. 748-756.

DESCRIPTORS: *Xylenes, *Petroleum, *Coal tar.

62-14608

I. Kizhner, N.
II. Krasova, V.

(Unannounced)

Office of Technical Services

Alkylation of Aniline in the Presence of Mixed Catalysts. III. Catalytic Obtaining of Mono-methyl- and monethylaniline, by N. I. Shuikin, A. N. Bitkova, A. F. Ermilina, 10 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol VI, No 5,
1936, pp 774-779.

Sci Tr Center
RT-1436

18,879

Scientific - Chemistry

Mechanism of Autoxidation of Hydrocarbons in the Liquid Phase, by N. V. Klyshaylova, M. D. Leiman,
26 pp.

Russia, per, Zaur Obszch Min (USSR), Vol VI,
No 6, 1936, pp 821-838.

Assoc Tech Serv
1615

ATS/RJ - 1615

Sci + Chem

May 59

CGS, F. I., No 6

86, 314

Zal'kind, Yu. S. and Zonis, S. A.
 α -VINYLNAPHTHALENE AND SOME DERIVATIVES
OF IT. [1961] 10p. 30 refs.
Order from OTS or SLA \$1.10

61-18151

Trans. of Zhurnal Obshchey Khimii (USSR) 1936, v. 6,
p. 988-998 (certain sections summarized).

DESCRIPTORS: Vinyl radicals, Naphthalenes.

61-18151
I. Zal'kind, Yu. S.
II. Zonis, S. A.

(Unannounced)

Office of Technical Services

Investigation of Reduction of Aromatic Nitro Compounds, II, by V. O. Lukashevich, 21 pp

RUSSIAN, per, Zhur Obshch Khim, Vol VI, No 8,
1936, pp 1064-1073.

CIA/FDD/X-1616

Scientific - Chemistry Apr 55 CTS

22,836

Oxidation of Phosphorus in Mixtures with [] Wood
Cherconl, by V. N. Osipov, 6 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol VI, 1936,
pp 1096-1100.

SLA R-~~9213~~

Sci

Jul 59

92, 356

Formation of Intermediate Compounds in the Oxidation
of Sulfur Dioxide Solutions with Ozone, by L. I.
Keshtenov, I. N. Oleashchuk, 6 pp.

RUSSIAN, per, Zhur Obsnich Khim, Vol VI, 1936, pp
1112-1115.

SLA R-2928

Sci

Jul 59

92, 601

Akhunov, E. I. and Ezerova, E. A.
ELECTROLYSIS OF SODIUM CHLORIDE IN LIQUID
AMMONIA. III. INVESTIGATION OF SOLUBILITY IN
THE TERNARY SYSTEM NaCl-NH₄Cl-NH₃. [1963]
[17]p. 20 refs.

Order from OTS or SLA \$1.60

63-18044

Trans. of Zhurnal Obrabotki Khimii (USSR) 1936, v. 6,
no. 10, p. 1418-1429.
Another trans. is available from LC or SLA mi\$2.40,
ph\$3.30 as 60-17714, TVA-3717, 13 May 58, 19p.

DESCRIPTORS: *Phase studies, *Electrochemistry,
*Sodium compounds, *Ammonium compounds, Chlo-
rides, *Ammonia, Solubility, Thermodynamics,
Electrolysis, Platinum electrodes.

(Chemistry--Physical, TT, v. 10, no. 6)

63-18044

I. Akhunov, E. I.
II. Ezerova, E. A.

Office of Technical Services

Zhur Obshch Khim Vol 6, page 1430-2 (1936)

The So-Called Katz Effect. by I. Tananaev.

AEC Trans (avail. Brookhaven)

Studies in the Field of Chloro Derivatives of Hydrocarbons of the Aliphatic Series. III. Chlorination of 1,2- and 2,3-Dichlorobutanes, by D. V. Tishchenko,
A. Churbakov,

RUSSIAN, 1956, Izv. Akad. Nauk SSSR, Ser. Khim., Vol VI, No 11, 1956.
pp 1550-1553.

ADS RJ-2102

Sci. - Chem

May 60

115,395

An Electrochemical Investigation of the System
 $\text{AlBr}_3\text{-AsBr}_3$ in Ethyl Bromide, by V. A. Plotnikov,
S. I. Yakubson, 6 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol VI, No 11,
1936, pp 1694-1697.

Sci Mus Lib - 56/0586

A.E.R.E. Harwell Tr 609

Sci - Chemistry,

36, 356

Jul 1956

On Some Fluoride Compounds of Quadrivalent Uranium
and the Possibility of Quantitative Determination
of Uranium in the Form of Fluoride, by V. G.
Khalopin, Z. K. Gerling, 14 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol VI, No 11, 1936,
pp 1701-1714.

ALL M-4509
AEC TR
Sci Mus Lib No 54/0695

16,073
Scientific - Chemistry

RT-1968 Oct or Nov 49 CES

Gutser, R. and Tishchenko, D.
RESEARCH ON ALIPHATIC HALOGEN DERIVATIVES.
IV. CATALYTIC CONVERSION OF 2,3-DICHLOROBUTANE IN THE PRESENCE OF STEAM. 8p 17refs
Order from OTS, SLA, or ETC \$1.10 TT-61-16626

Trans. of Zhurnal Obshchey Khimii (USSR) 1936, v. 6,
p. 1729-1730.

(Chemistry—Organic, TT, v. 12, no. 4)

TT-61-16626

I. Gutser, R.
II. Tishchenko, D.
III. Title: Catalytic ...

Office of Technical Services

The Effect of Nitrogen Dioxide on Benzene, Toluene,
and Chlorobenzene, I. ~~Nitration~~ Nitration With Nitrogen
Dioxide in the Presence of Sulfuric And Phosphoric
Acids, by A. I. Titov, A. N. Baryshnikova, 6 pp.

RUSSIAN, per, Zhur Obshch Khim, ~~Vol~~ No 6, 1936,
pp 1801-~~to~~ 1805.

28,669

CIA/FDD/XX-9

IAC Internal Use Only

Scientific - Chemistry

Nov 55 CTS

Slobodin, Ya. M.
ISOMERIZATION OF ALLENE HYDROCARBONS
III. ISOMERIZATION OF TETRAMETHYLALLENE
9p 16refs
Order from OTS, SLA, or ETC \$1.10 TT-61-16836

Trans. of Zhurnal Otechestv Khimii (USSR) 1936,
v. 6, p. 1806-1814.

(Chemistry--Organic, TT, v. 12, no. 4)

TT-61-16836
I. Slobodin, Ya. M.
II. Title: Isomerization

Office of Technical Services

On Complex Compounds Obtained by Reaction of Phenyl
Stibine Chloride With Phenyl Diazonium Chloride,
by A. B. Bruker, 13 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol VI, No 2,
1936, pp 1823-1827.

MIH

Scientific - Chemistry
CTS/DEX

6302

The Action of Nitrogen Dioxide on Benzene, Toluene,
and Chlorobenzene - Part II (Preliminary), by
A. I. Titov, 11 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol VI, 1936,
pp 1855-1862.

CIA/FDD/XX-48

30,369

Scientific - Chemistry

Jan 56 CTS/DEX

IAC INTERNAL USE ONLY

| | |
|--|---|
| <p>Slobodin, Ya. M. ISOMERIZATION OR ALLENE HYDROCARBONS BY SILICATES. IV. EQUILIBRIUM IN THE SYSTEM ALLENE-ALLYLENE. [1961] 6p 16refs Order from OTS, SLA, or ETC \$1.10 TT-61-16811</p> <p><u>Treya. of Zhurnal Obshchey Khimii (USSR) 1936, v. 6,</u> p. 1892-1896.</p> <p>See also 61-18130</p> <p>DESCRIPTIONS: *Allenes, *Propynes, *Dienes, Acetylenes, Chemical equilibrium, Molecular isomerism, Polymerization, *Silicates</p> <p>(Chemistry--Organic, TT, v. 11, no. 3)</p> | <p>TT-61-16811</p> <p>I. Slobodin, Ya. M. II. Title: Equilibrium...</p> <p>Office of Technical Services</p> |
|--|---|

Rathman, F. F.
ABSORPTION OF PROPYLENE AND CYCLOPROPANE
BY MEANS OF SOLUTIONS OF SULPHURIC ACID.
8p. 11 refs. MTWL: 161.
Order from OTS or ETC \$1.55

61-17847

Trans. of Zhurnal Obshchei Khimii (USSR) 1937,
v. 7, no. 1, p. 14-17.

DESCRIPTORS: *Propenes, *Sulfuric acid, Solutions,
Absorption.

61-17847

- I. Rathman, F. F.
- II. MTWL-161
- III. Stichting Moeilijk
Toegankelijke Wetenschap-
lijke Literatuur

Office of Technical Services

Kinetics of Solvation of Calcium Carbonate,
by V. M. Gortikov, L. I. Dantel'syeva,

RUSSIAN, per, Zhur Obshch Khim, Vol VII,
No 1, 1937, pp 56-64.

Assoc Tech Svc

~~Scientific - Chemistry~~

RJ-140

18,908

Scientific - Chemistry

Zhur Obshch Khim Vol 1, page 84-9 (1937)

The Structure of Hypophosphorous Acid.
by V. M. Pletz.

AEC Trans (avail. Brookhaven)

Zh Obshch Khim Vol 7, pp 90-2, 1937.

On the structure of hypophosphorus acid. II. The reaction of aromatic hydrazines with salts of hypophosphorous acid, by V. M. Plets

AEC/BNL/Tr 128

NIH 5-63

done by Sci. Mem. Kit,
D.B. - # 50/1117

Serebryakova, E. K. and Frost, A. V.

EQUILIBRIUM OF HYDROCARBON REACTIONS. X.
THE EXPERIMENTAL STUDY OF EQUILIBRIUM BE-
TWEEN NORMAL BUTENE AND ISOBUTENE. [1962]
11p. (figs. omitted).

Available on loan from SLA

63-10407

Trans. of Zhurnal Obshchey Khimii (USSR) 1937, v. 7,
[no. 1] p. T22-130.

DESCRIPTORS: *Hydrocarbons, Chemical reactions,
*Chemical equilibrium, *Butenes, Molecular
isomerism, *Isomeric transitions, Catalysts,
Phosphoric acids.

The equilibrium constants between normal butenes and
isobutenes are given in the temperature interval of
265° to 426°C. The experimental data from the equilib-
rium constants are embraced by equation:
(Chemistry--Organic. TT, v. 9, no. 7)

(over)

63-10407

I. Serebryakova, E. K.
II. Frost, A. V.
III. Title: Experimental...

Office of Technical Services

Chemistry of Titanium, VI. Scheme of Reaction and Products of Chlorination of Materials Containing Titanium, by A. V. Pamfilov, ^{and} E. G. Shtandel, 7 pp.

RUSSIAN, per, Zhur v Obshch Khim, Vol VIII, No 1, 1937, pp 258-261.

Sci Trans Center RT-871

Scientific - Chemistry
CTS/DEX

14,042

Zh Obshch Khim Vol 7, pp 270-2, 1937

On the structure of hypophosphorous acid. III. The reaction of aromatic diazo-compounds with phosphorus trichloride and sodium di-isopropyl sodium phosphite,
V. M. Plets

AEC/BNL/Tr 129

Done by Sci Mus Lit.
J.B. - # 10/1116

Structure of Hypophosphorous Acid. IV. Reaction
of Salts of Hypophosphorous Acid With Alkyl Halides,
by V. M. Plets, 9 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol VII, No 1,
1937, pp 273-276.

Sci Tr Ctr RT-3426

Scientific - Chemistry

34, 874

May 56 CRS/dex

Aromatization of Some Homologues of Cyclopentane
and Paraffins in Presence of Platinized Carbon, by
A. F. Plate, B. A. Kazanskiy, 4 pp.

RUSSIAN, no per, Zhur Obsch Khim, Vol VII, No 2,
1937, pp 328-329.

US Dept of Commerce
Patent Office
Sci Lib (Gift)

Sci - Chemistry
Mar 1957 CTS/dex

44,750

Contact Conversion of Cyclohexylacetylene, by R. Ya.
Levina, A. A. Potapova, 7 pp.

RUSSIAN, per, Zhur Obsh Nhim, Vol VII, 1937, pp 353-356.

SLA 59-19117

Sci
Jun 60
Vol III, No 5

119,071

Rate of Transformation of Ammonium Nitrate from
Alpha-to-Beta-Form, by V. K. Pershke, A. N. Popov,
9 pp.

RUSSIAN, per, Zhur Obschei Khim, Vol VII, 1937,
pp 363-368.

SLA/R-2470

Sci
Apr 59

84,889

Petrov, A. A. and Sapochnikova, A. F.
ANOMALOUS POLHALOGENATION OF SOME TRI-
AND TETRAHALOGEN DERIVATIVES, [1961] 10p.
20 ref.

Order from OTS or SLA \$1.10

61-1810*

Voprosy Khimicheskoy Khimii (USSR) 1967, v. 7,
no. 2, p. 471-484.

[Review of Petrov, A. F., Halogeno-alkane compounds, Bromides, Report no. 2]

61-18103

L. Petrov, A. A.
H. Sapochnikova, A. F.

{Unnumbered}

Office of Technical Services

Kaplan, S. L., Grishin, N. A., and Skvortsova, A. A.
EQUILIBRIUM IN SOLUTIONS. II. THE BOILING TEMPERATURE UNDER ATMOSPHERIC PRESSURE AND THE COMPOSITION OF THE VAPOR OF BINARY MIXTURES OF DICHLOROETHANE WITH ETHYLENE CHLORHYDRIN AND DICHLOROETHANE WITH ETHYLENE OXIDE. [1964] 10p
Order from K-H \$6.00

K-H-1092

Trans. of Zhurnal Obshchey Khimii (USSR) 1937, v. 7,
p. 538-544.
Another trans. is available in Dutch from OTS or ETC
\$1.85 as TT-61-17747, MTWL-102, 11p.

TT-64-12911

- I. Kaplan, S. L.
- II. Grishin, N. A.
- III. Skvortsova, A. A.
- IV. Title: Boiling...
- V. K-H-1092
- VI. Kresge-Hooker Science Library Associates,
Detroit, Mich.

(Chemistry--Physical TT, v. 11, no. 11)

Office of Technical Services

Equilibrium in Solution. III. The Solubility and Vapor Pressure of Solutions of Ethylene Oxide in Water and in Dichlorethane, by S. I. Kaplan, A. S. Reformatkaya.

Full translation.

RUSSIAN, per, Zhur Obshch Khim, Vol VII, USSR, 1937,
pp 545-549.

AEC Tr 1347

Sci - Chem

Aug 52 CTS

DEV

The Effect of Nitrogen Peroxide on Benzene, Toluene, and Chlorobenzene; III. Nitration by Nitrogen Peroxide in the Presence of Aluminum Chloride, Phosphorus Pentachloride and Mercuric Nitrate, by A. I. Titov, 8 pp.

CTS-77-61-18087

RUSSIAN, per, Zhur Obshch Khim, Vol VII, No 3/4,
pp 591-594.

CIA/FDD/X-1700

25,167

Scientific - Chemistry

Jul 55 CTS

Tsukervanik, I. P. and Vikhrova, G.
CONDENSATION OF ALCOHOLS [WITH AROMATIC
HYDROCARBONS] IN THE PRESENCE OF ALUMINUM
CHLORIDE. III. CONDENSATION OF PRIMARY AL-
COHOLS WITH BENZENE AND TOLUENE. [1961] 4p.
6 refs.

Order from OTS or SLA \$1.10 61-18114

Trans. of Zhurnal Obshchei Khimii (USSR) 1937, v. 7,
p. 632-636.

DESCRIPTORS: Condensation reactions, Alcohols, Hy-
drocarbons, Aluminum compounds, Chlorides, Ben-
zenes, Toluenes.

(Unannounced)

61-18114

I. Tsukervanik, I. P.
II. Vikhrova, G.

III. Title: Condensation ...

Office of Technical Services

Tukervanik, I. P. and Sidorova, N. G.
CONDENSATION OF ALCOHOLS WITH AROMATIC
HYDROCARBONS IN THE PRESENCE OF ALUMINUM
CHLORIDE. V. CONDENSATION OF CYCLOHEXANOL
WITH BENZENE AND TOLUENE. 6p 6refs
Order from OTS, SLA, or ETC \$1.10 TT-61-16973

Trans. of Zhurnal Obshchey Khimii (USSR) 1937, v. 7,
p. 641-645.

TT-61-16973

I. Tukervanik, I. P.
II. Sidorova, N. G.
III. Title: Condensation ...

(Chemistry--Organic, TT, v. 12, no. 4)

Office of Technical Services

Nitration of Benzaldehyde and Nitro Derivatives of Benzene, Toluene, and Chlorobenzene With Nitrogen Peroxide; Communication IV, by A. I. Titov, 10 pp.

RUSSIAN,
1955 per, Zhur Obrn. Khim., No 3/4, pp 667-672.

OTS-IT-61-18086

CIA/FDD/X-1701

25/66

Scientific - Chemistry Jul 55 CTS

Physical and Chemical Properties of Polystyrene,
by N. P. Korzhavin.

RUSSIAN, per, Zh. Prik. Khim., No 10, 1937,
pp 676-682.

NLL Ref: 5828.4F (M.13066)

Sci/Mat
May 69

381,008

Chemistry of Titanium, VIII, Chlorination of
Titanium Compounds With a Mixture of Chlorine and
Carbon Monoxide, by A. V. Pamfilov, M. G. Shikher,
12 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol VII, No 22,
1937, pp 760-766.

Sci Trans Center RT/872

Scientific - Chemistry
CTS /DEX

14,041

Investigations of the Catalytic Nature of Rhenium.
III. Methods of Obtaining Rhenium Catalysts, by
M. S. Platonov, V. I. Tomilov, 7 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol VII, 1937,
pp 776-777.

9
~~SECRET~~ CIA/FDD/X-1400

Scientific - Chemistry
SERI CTS/DEX
Aug

16,778

Solubility of Ozone in Water and Sulfuric Acid of
Various Concentrations by L. I. Kashatnov, O. N.
Oleshchuk 4

RUSSIAN, per, Zhur Obshch Khim, Vol VII, 1937, pp
839-841.

SLA R-2901

Sci

Jul 59

92,600

Catalytic Oxidation of some Aromatic Compounds, by
Yu . S. Zalkind, V. V. Kesarev, 5 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol VII, No 5,
1937, pp 879-881.

Sci Tr Ctr RT-386'

Sci - Chemistry
Aug 56 CTB/dex

37,546

Orlov, S. M.
STRUCTURE OF THE ISOMERS OF 2-BUTENE. [1961]
5p 8refs
Order from OTS, SLA, or ETC \$1.10 TT-61-16601
Trans. of Zhurnal Obshchey Khimii (USSR) 1937, v. 7,
p. 923-927.

DESCRIPTIONS: *Butenes, Polymerization, *Octenes,
Synthesis (Chemistry), Molecular structure, Molecular
Isomerism

(Chemistry--Organic, TT, v. 11, no. 3)

TT-61-16601

1. Title: 3, 4, 5, 6-Tetra-methyl-4-octene
2. Title: 3, 4, 5, 6-Tetra-methyl-2-octene
1. Orlov, S. M.

Office of Technical Services

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| <p>Lozovoi, A. V., D'yakova, M. K., and Stepantseva, T. G. SOME PHYSICAL CONSTANTS OF HYDROCARBON MIXTURES. [1961] [8]p. 8 refs. Order from OTS or SLA \$1.10 61-18135</p> <p>Trans. of Zhurnal Obshchei Khimii (USSR) 1937, v. 7, p. 1119-1132.</p> <p>DESCRIPTORS: Hydrocarbons, Mixtures, Physical properties.</p> | <p>61-18135</p> <p>I. Lozovoi, A. V. II. D'yakova, M. K. III. Stepanseva, T. G.</p> |
| (Unannounced) | Office of Technical Services |

Izbekov, V. and Nizhnik, A.
ALUMINUM IODIDE AS A SOLVENT. [1961] [17]p.
31 refs.
Order from OTS or SLA \$1.60 61-10978

Trans. of [Zhurnal Obshchey Khimii].(USSR) 1937,
v. 7 [no. 8] p. 1268-1279.

DESCRIPTORS: *Aluminum compounds, *Iodides,
Solvent action, Solubility, Conductivity, Temperature,
Fused materials.

(Unannounced)

61-10978

I. Izbekov, V.
II. Nizhnik, A.

161654

Office of Technical Services

Tishchenko, V. E. and Kosternaya, A. F.
THE XANTHATE METHOD OF L. A. CHUGAEV
APPLIED TO DIHYDROXY ALCOHOLS. [1943] 26p.
31 refs.

Order from OTS or SLA \$2.60 62-14410

Trans. of Zhurnal Obshchei Khimii (USSR) 1937, v. 7
[no. 9] p. 1366-1377.

DESCRIPTORS: Hydrocarbons, Synthesis, Alcohols,
Hydroxides, Xanthates, Glycols, Ethylenes, Sodium,
Carbonates.

(Unannounced)

62-14410

I. Tishchenko, V. E.
II. Kosternaya, A. F.

Office of Technical Services

Tishchenko, V. E. and Kosternaya, A. F.
APPLICATION OF L. A. CHUGAEV'S XANTHATE
METHOD TO DIHYDRIC ALCOHOLS FOR PREPARA-
TION OF UNSATURATED HYDROCARBONS. [1962]
11p. 31 refs.
Order from OTS or SLA \$1.60

62-14611

Trans. of Zhurnal Obshchey Khimii (USSR) 1937, v. 7
[no. 9] p. 1366-1377.

DESCRIPTORS: Hydrocarbons, Synthesis, Glycols,
Ethylenes, Xanthates, Alcohols, Esters, Pyrolysis,
Decomposition, Sodium,

62-14611

- I. Tishchenko, V. E.
- II. Kosternaya, A. F.
- III. Chugaev, L. A.

(Unannounced)

Office of Technical Services

The Oxidation of Phenol by Ozone in Water and
Sulfuric Acid of Different Concentration in the
Presence of Manganese Sulfate, by L. I. Kashtanov,
O.N. Oleshchuk. 5 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol VII, 1937,
pp 1413-1416.

SLA R-2900

Sci

Jul 59

92, 363

Levina, R. Ya. and Zelinskii, N. D.
CONTACT ISOMERIZATION OF OLEFINS. [1961]
7p. 15 refs.
Order from OTS or SLA \$1.10

61-18117

Trans. of Zhurnal Obshchei Khimii (USSR) 1937, v. 7,
p. 1587-1593.

DESCRIPTORS: Ethylenes, Isomeric transitions.

61-18117

I. Levina, R. Ya.
II. Zelinskii, N. D.

(Unannounced)

Office of Technical Services

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| Kozlov, V. V. ONDERZOEKINGEN OP HET GEBIED DER DIAZOVER- BINDINGEN, I. DE DIAZOTERING VAN AMINEN MET BEHULP VAN STANNOVERBINDINGEN (Diazocom- pounds, I. Diazotization of amines in the presence of bivalent Sn salts). 13p. 13 refs. MTWL; 682. (Text in Dutch). Order from OTS or ETC \$1.85 | 61-17367 |
| Trans. of <u>Zhurnal Obshchey Khimii</u> (USSR) 1937, v. 7, p. 1635-1644. | I. Kozlov, V. V. II. MTWL-682 III. Stichting Moeilijk Toegankelijke Wetenschap- lijke Literatuur |
| DESCRIPTORS: Amines, Azo radicals, Tin compounds Chemical reactions. | Office of Technical Services |

Catalytic Transformations of Heterocyclic Compounds, by Yu. K. Yur'ev, M. N. Prokina.
RUSSIAN, per, Zhurnal Obshchey Khimii,
Vol VII, 1937, pp 1868-1873.

SLA TT 64-20956

502

Sci

May 67

327,194

Determination of the Vapour Tension of Tantalum
and Niobium Chloride, by M. A. Opykhtina,
N. A. Fleisher,

RUSSIAN, per, Zhur Obshch Khim, Vol VII,
No 14, 1937, pp 2016-2021.

TPA3/TIB
T 4289

Scientific - Chemistry Feb 55 CTS

20,864

Action of Aromatic Diazo Compounds on Unsaturated Compounds, Part I., by A. P. Terent'ev, 2 pp.

RUSSIAN, DEX, Zhur Obshch Khim, Vol VII, 1937,
pp ~~ZKAY~~ 2026-2027.

CIA/FDD/X-1323

Scientific - Chemistry
DEX

4094

Action of Aromatic Diazo Compounds on Unsaturated Compounds, II. A Sensitive Reagent for 1, 3-Butadiene,
by A. P. Terent'ev, E. M. Ivanova, 2 pp.

RUSSIAN, para Zhur Obshch Khim, Vol VII, 1937,
pp 2028-2029.

CIA/PDD/X-1324

Scientific - Chemistry
DEX

14,084

Specific Heat of Molten Sodium Hydroxide, by V. R.
Korashkevich, A. N. Vishnevskiy.

ESSIAN, per, Zhurnal Obozreni Khimii, Vol VII,
No 16, 1937, pp 2175-2182.

Assoc Tech Svc
Soviet Archives
RJ-178

Scientific - Chemistry

17, 451

VII. Reduction of Nitro Compounds and Allied Products in the Presence of Acids, by V. O. Lukashevich, 43 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol VII, No 16,
1937, pp 2209-2227.

NLL M.2268
CIA/FDD/X-1627

Scientific - Chemistry Apr 55 CTS

22,930

Diphenyl Cadmium, by A. N. Nesmeyanov,
G. L. Makarova, 10 pp,

RUSSIAN, per, Zhur Obshch Khim, Vol VII,
Nos 20/21, 1937, pp 2649-2653.

Sci Mu Lib No 54/3312
Natl Res Lib TT-474

Scientific - Chemistry Apr 55 CTS 22,576

Chemistry of Titanium IX. Structure of Titanium
Oxide Precipitates, by A. V. Pamfilov, N. G.
Ivancheva, 10 pp.

Ye.

RUSSIAN, per Zhur Obshch Khim, Vol VII, No 22, 1937,
pp 2774-2778

2774-2778

Sci Trans Center RT-976

scientific - Chemistry
CTSK/DEX

14,035

Condensation Products of Glycerol With Halo
Acetones and Acetol, by V. V. Evlampiev.
RUSSIAN, per, Zhurnal Obshchey Khimii,
Vol VII, No 24, 1937, pp 2941-2944.
SLA TT 64-20445

May 67 325,054

The Part Played by the Surface in Processes of Oxidation of Aqueous Solutions of Sulfur Dioxide with Oxygen and Ozone, by L. I. Kashtanov, O. N. Oleshchuk, 9 pp.

RUSSIAN, per, Zhur Obshchei Khim, Vol VII, 1938,
pp 182-187.

SLA/R-2485

Sci
Apr 59

84,868

Derivatives of 9,10-Dihydrophenphosphazine,
Preliminary Report, by P. G. Sergeyev,
D. G. Kudryashov, 18 pp,

RUSSIAN, per, Zhur Obshch Khim, Vol VIII, No 3,
1938, pp 266-272., CIA D-151312

SLAR-908

NIH

Scientific - Chemistry

May 55 CTS

23, 488

Medokas, G. V.

ON THE ACTION OF THE GRIGNARD REAGENT
ON TETRAFLUOROSILICON. II. ABOUT TRIBEN-
ZYLFLUROMONOSILANE. [1964] 6p 5refs
Order from OTS, SLA, or ETC \$1.10 TT-64-10021

Trans. of [Zhurnal Obshchel Khimii] (USSR) 1938,
v. 8, p. 291-295.

TT-64-10021

I. Medokas, G. V.
II. Title: About...

(Chemistry--Organic, TT, v. 12, no. 2)

Office of Technical Services

The Infrared Absorption Spectra of Gossypol
Derivatives, by A. M. Zamyshlyayeva, S. S. Krivich,
11 pp.
RUSSIAN, per. Zhur Obshch Khim, Vol VIII, No 4,
1938, pp 319-329.
OTS 64-11078
PL-480

Sci - Chem
Jan 65

271,050

A Study by the Optical Method of the Behavior of the
Manganese Self-Catalyst in Strong Acid Solutions
in the Presence of Ozone, by L. I. Kashtanov,
O. N. Oleshchuk, 7 pp.

RUSSIAN, per, Zhur Obshcher Khim, Vol VIII, 1938,
pp 341-345.

SLA R-2930

Sci

Jul 59

92, 342

cba

Coupling of Tetrahydrophthalene With Aluminum Chloride, by N. B. Turova-Polyak, N. B. Lyumbirova,

RINSKII, pub, Zhur Sistemoi Khim, Vol VIII, no 6,
1936, pp 539-543.

ATC RJ-2100

Sci - Chem

May 60

115 393

Alkyl and Acyl-Substituted Ortho-Ethers of Silicic
Acids. I. Preparation of Organomagnesium
Compounds Without Ether in the Presence of
Tetraalkyl-silicane, by N. Andrianov, O. Grishanov,
D. P.

RUSSIAN, *Perzhur. Obshch. Khim.*, 1933, Vol. III, No. 6,
pp. 552-557

CIA 59-30729

Sci
Mar 50
Vol 3, No 1

119, 862

Infrared Absorption Spectra of Gossypol Derivatives,
by A. M^z Zamyshlyeva, S. S. Krivich.

Zhur Obshchey Khim
RUSSIAN, per, Gen Chem (USSR), No 8, 1938,
pp 319-329. (Chem Abs 53035 - 1938)

*PL-480
USDA

Sci -
Jun 63

Experiments on the Cleavage of 2,5-Dimethyl-3-Hexyne-2,5-Diol, by A. T. Babayan.
RUSSIAN, per, Zh Obshch Khim, Vol 8, No 6, 1938,
pp 578-580.
ATS RJ-5064

Sci-Chem
July 69

385,476

Osokin, A. S.
COMPLEXES OF MAGNESIUM CHLORIDE WITH
OXYGEN COMPOUNDS. [1961] 3p. 7 refs.
Order from OTS or SLA \$1.10 61-18102

Condensed trans. of Zhurnal Obshchei Khimii (USSR)
1938, v. 8, no. 7, p. 583-587.

DESCRIPTORS: Complex compounds, Magnesium
compounds, Chlorides, Oxygen compounds.

(Unannounced)

61-18102

I. Osokin, A. S.

Office of Technical Services

Kazanskit, B.A. and Glushnev, N.F.
HYDROGENATION OF AROMATIC HYDROCARBONS
THROUGH REACTION WITH CALCIUM-AMMONIA.
16 p. 19 refs. MTWL: 615.
Order from OTS or ETC \$1.55

61-17237

Trans. of Zhurnal Obshchey Khimii (USSR) 1937,
v. 8, no. 7, p. 642-650.

DESCRIPTORS: *Benzene, Hydrocarbons,
*Hydrogenation, Calcium, Ammonia.

61-17237
I. Kazanskit, B.A.
II. Glushnev, N.F.
III. MTWL-615
IV. Stichting Moeillijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

9
Oxidation of Sulfur Dioxide by Ozone in the
Presence of Oxygen in Various Concentrations,
by L. I. Kashtanov and V. P. Rykhov, 7 pp.

RUSSIAN, per, Zhur Obshch Khim, SSSR, Vol
VIII, 1938, pp 746-750.

SLA R-2419

Sci

Aug 58

72,130

Nikitina, K. A.

COMPOSITION AND PROPERTIES OF SILICOMOLYBDIC
ACID. [1963] 14p (refs omitted)
Order from OTS, SLA or ETC \$1.60 TT-63-20795

Trans. of [Zhurnal Obshchei Khimii] (USSR) 1938,
v. 8, p. 751-758.

DESCRIPTORS: *Reagents, *Silicon compounds,
*Molybdic acids, Synthesis (Chemistry), Hydrates,
Crystallization, Dehydration, Chemical analysis,
Chemical properties.

TT-63-20795

I. Nikitina, K. A.

(Chemistry--Inorganic, TT, v. 11, no. 3)

Office of Technical Services

Mutual Displacement of Metals From the
Vapours of their Salts and the Use of
the Process in the Struggle Against
Corrosion, by Izgaryshev.

RUSSIAN, per, Zhurn. Obshchei Khimii,
Vol 8, No 9, 1938, pp 830-833.
*BISI 4521

Sci/MRN
Nov 65